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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/619,295	07/14/2003	Michael Lee	NKTZ 2 00061	6308	
27885 7	27885 7590 03/03/2006		EXAMINER		
•	PE, FAGAN, MINNIC	BLAU, STEPH	BLAU, STEPHEN LUTHER		
1100 SUPERIOR AVENUE, SEVENTH FLOOR CLEVELAND, OH 44114			ART UNIT	PAPER NUMBER	
	•		3711		
				D. MD 17.17 DD 00/00/00/0	

DATE MAILED: 03/03/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)				
		10/619,295	LEE, MICHAEL				
	Office Action Summary	Examiner	Art Unit				
		Stephen L. Blau	3711				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
2a) <u></u>	Responsive to communication(s) filed on 11 October This action is FINAL. 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro					
Dispositi	on of Claims						
5)□ 6)⊠ 7)□	Claim(s) <u>6,7,9,10,20-23 and 26</u> is/are pending 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>6,7,9,10,20-23 and 26</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.					
Applicati	on Papers						
9) 10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correction to the oath or declaration is objected to by the Example 1.	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority u	ınder 35 U.S.C. § 119		•				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment	t(s) e of References Cited (PTO-892)	4) 🗖 lata da	(DTO 442)				
2) 🔲 Notice 3) 🔲 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa					

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DETAILED ACTION

Claim Objections

1. The change to claim 26 is agreed with and the objection is removed

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 6-7, 10 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Elkins (D244,558) in view of Elkins (4,128,242) and Viollaz.

Elkins (D244,558) discloses head having a blade surface and a muscle back surface (Fig. 6), a muscle back surface having an upper ledge that generally follows the contour of the top edge (Figs. 1-2), a blade surface being near a top edge and substantially parallel to the front face (Figs. 1-2, and 6-7) and a muscle back portion covering at least half of the surface area of the rear surface (Fig. 1).

Elkins (D244,558) lacks a cavity disposed in a muscle back portion with the cavity not visible from the exterior of a club and having no visible cavity thereon, and a

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cavity vertically spaced from the sole. Elkins (4,128,242) discloses a head having a blade surface and a muscle back surface (Fig. 7), a cavity (53) disposed in a muscle back portion with a cavity (Figs. 7-8), a cavity vertically spaced from a sole (Fig. 7) and the cavity not visible from the exterior of a club in the form of being able to able to pour a filler into the cavity (53) and than placing a plug (55) over the cavity (Col. 12, Lns. 30-45) in order to have the moment of inertia about the center of gravity maximized by positioning weight at the heel and toe and in order to add effective loft to a head by having a center of gravity low (Col. 12, Lns. 19-67). In view of the patent of Elkins (4,128,242) it would have been obvious to modify the head of Elkins (D244,558) to have a cavity disposed in a muscle back portion with the cavity not visible from the exterior of a club and a cavity vertically spaced from the sole in order to have the moment of inertia about the center of gravity maximized by positioning weight at the heel and toe and in order to add effective loft to a head by having a center of gravity low.

Elkins (D244,558) has a lip at the back sole which one skilled in the art may define as forming a cavity on the back of the muscle back portion. Viollaz discloses a cavity not visible from an exterior of a club, a cavity vertically spaced from the sole (Figs. 4-5), a muscle back surface being rounded and having no visible cavity thereon (Figs. 2-3) and a cavity filled with a foamed urethane in the form of polyurethane (Col. 2, Lns. 46-50). In view of the patent of Viollaz it would have been obvious to modify the head of Elkins (D244,558) to have no lip where the muscle back surface intersection with the sole surface in order to have a more rounded intersection and as such have a head with less interaction with the ground when impacting the back of the sole with the

ground when impacting a ball on the ground. As such there would be a muscle back portion having no visible cavity thereon. In view of the patent of Viollaz it would have been obvious to modify the head of Elkins (D244,558) to have the cavity filled with foamed polyurethane in order to provide vibration dampening to a head at impact and in order to utilize a shock absorption material placed inside heads used in the market place.

4. Claims 9, 21-23 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Elkins (D244,558) in view of Elkins (4,128,242) and Viollaz as applied to claims 6-7, 10 and 20 above, and further in view of Motomiya.

Elkins (D244,558) lacks an elastomer filling a cavity. Motomiya discloses filling a sealed space with an elastic filler material such as foamed urethane and rubber (Col. 2, Lns. 14-16). In view of the patent of Motomiya it would have been obvious to modify the head of Elkins (D244,558) to have a polyurethane being a high rebound foamed elastomer filling a cavity in order to utilize a type of urethane shock absorption material used in the market place inserted in cavities of heads.

5. Claims 6-7, 10, 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Elkins (D244,558) in view of Elkins (4,128,242) and Golden.

Elkins (D244,558) discloses head having a blade surface and a muscle back surface (Fig. 6), a muscle back surface having an upper ledge that generally follows the contour of the top edge (Figs. 1-2), a blade surface being near a top edge and

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substantially parallel to the front face (Figs. 1-2, and 6-7) and a muscle back portion covering at least half of the surface area of the rear surface (Fig. 1).

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Elkins (D244,558) lacks a cavity disposed in a muscle back portion with the cavity not visible from the exterior of a club and having no visible cavity thereon, and a cavity vertically spaced from the sole. Elkins (4,128,242) discloses a head having a blade surface and a muscle back surface (Fig. 7), a cavity (53) disposed in a muscle back portion with a cavity (Figs. 7-8), a cavity vertically spaced from a sole (Fig. 7) and the cavity not visible from the exterior of a club in the form of being able to able to pour a filler into the cavity (53) and than placing a plug (55) over the cavity (Col. 12, Lns. 30-45) in order to have the moment of inertia about the center of gravity maximized by positioning weight at the heel and toe and in order to add effective loft to a head by having a center of gravity low (Col. 12, Lns. 19-67). In view of the patent of Elkins (4,128,242) it would have been obvious to modify the head of Elkins (D244,558) to have a cavity disposed in a muscle back portion with the cavity not visible from the exterior of a club and a cavity vertically spaced from the sole in order to have the moment of inertia about the center of gravity maximized by positioning weight at the heel and toe and in order to add effective loft to a head by having a center of gravity low.

Elkins (D244,558) has a lip at the back sole which one skilled in the art may define as forming a cavity on the back of the muscle back portion. Golden discloses a head having a rear surface including a blade surface and a muscle back surface, a blade surface being near the top edge and substantially parallel to the front surface and a muscle back surface having a bottom interaction with the sole as being rounded (Figs.

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1-2). In view of the patent of Golden it would have been obvious to modify the head of Elkins (D244,558) to have no lip where the muscle back surface intersection with the sole surface in order to have less interaction with the ground when impacting the back of the sole with the ground when impacting a ball on the ground. As such there would be a muscle back portion having no visible cavity thereon.

Response to Arguments

6. Applicant's arguments with respect to claims 6-7, 9-10, 20-32 and 26 have been considered but are moot in view of the new ground(s) of rejection. Due to the new found reference of Elkins (4,128,242) and its use in the rejections this action is not made final.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen L. Blau whose telephone number is (571) 272-4406. The examiner can normally be reached on Mon - Fri 10:00 AM - 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eugene Kim can be reached on (571) 272-4463. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/ STEPH**EN BLAU** PRIMARY **EXAMINER**

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